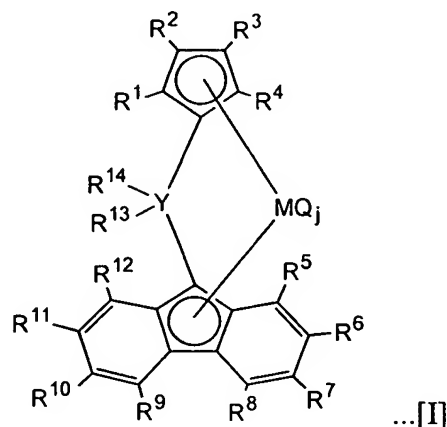


**AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) A bridged metallocene compound represented by the formula [I]:



wherein Y is a carbon, silicon, germanium or tin atom; M is Ti, Zr or Hf;  $R^1$  to  $R^{12}$ , which may be the same or different, are each hydrogen, a hydrocarbon group or a silicon-containing group; neighboring substituents of  $R^5$  to  $R^{12}$  may be linked with each other to form a ring;  $R^{13}$  and  $R^{14}$ , which may be the same or different, are each a hydrocarbon group or a silicon-containing group and may be linked with each other to form a ring (when  $R^5$  to  $R^{12}$  are all hydrogen or when  $R^6$  and  $R^{11}$  are both hydrocarbon groups,  $R^{13}$  and  $R^{14}$  are hydrocarbon groups other than phenyl, methyl and cyclohexylidene pentamethylene groups, and when  $R^7$  and  $R^{10}$  are both hydrocarbon groups,  $R^{13}$  and  $R^{14}$  are hydrocarbon groups other than phenyl and methyl groups); Q is a halogen, a hydrocarbon group, an anionic ligand or a neutral ligand capable of coordination by a lone pair of electrons, and may be the same or different when plural; and j is an integer from 1 to 4.

2. (Original) The bridged metallocene compound of the formula [I] as claimed in claim 1, wherein  $R^{13}$  and  $R^{14}$  are unsubstituted or substituted aryl groups, at least one of which is a substituted aryl group, and M is Ti or Zr.

3. (Original) The bridged metallocene compound of the formula [I] as claimed in claim 2, wherein  $R^{13}$  or  $R^{14}$  is a substituted aryl group which has one or more substituents of the same or different kind selected from hydrocarbon groups of 1 to 20 carbon atoms, halogen-containing hydrocarbon groups, halogen atoms, oxygen-containing groups and nitrogen-containing groups.

4. (Original) The bridged metallocene compound of the formula [I] as claimed in claim 1, wherein either or both of  $R^{13}$  and  $R^{14}$  is represented by  $R^{15}R^{16}CH-$ , in which  $R^{15}$  and  $R^{16}$  are each hydrogen, a hydrocarbon group or a silicon-containing group.

5. (Original) The bridged metallocene compound of the formula [I] as claimed in claim 4, wherein either or both of  $R^{13}$  and  $R^{14}$  is represented by  $R^{15}R^{16}CH-$ , in which  $R^{15}$  and  $R^{16}$  are linked with each other to form a ring.

6. (Currently Amended) The bridged metallocene compound of the formula [I] as claimed in claim 1, wherein Y is a carbon atom;  $R^{13}$  and  $R^{14}$  are linked with each other to form a ~~cyclohexylidene~~ pentamethylene group represented by  $-CH_2(CH_2)_n-$ , in which n is an integer from 1 to 10; and  $R^7$  and  $R^{10}$  are hydrocarbon groups of 1 to 20 carbon atoms.

7. (Original) The bridged metallocene compound of the formula [I] as claimed in claim 1, wherein arbitrary three or more substituents of  $R^5$  to  $R^{12}$  are hydrocarbon groups of 1 to 20 carbon atoms or silicon-containing groups.

8. (Original) The bridged metallocene compound of the formula [I] as claimed in claim 7, wherein  $R^6$ ,  $R^7$ ,  $R^{10}$  and  $R^{11}$  are hydrocarbon groups of 1 to 20 carbon atoms or silicon-containing groups.

9. (Original) The bridged metallocene compound of the formula [I] as claimed in claim 7, wherein  $R^6$  and  $R^7$ , and  $R^{10}$  and  $R^{11}$  are linked with each other to form rings.

10. (Original) The bridged metallocene compound of the formula [I] as claimed in claim 1, wherein  $R^5$  to  $R^{12}$  are not hydrogen at the same time;  $R^6$  and  $R^{11}$  are not t-butyl groups when  $R^{13}$  and  $R^{14}$  are methyl or phenyl groups; and Y is a silicon, germanium or tin atom.

11. (Original) The bridged metallocene compound of the formula [I] as claimed in claim 10, wherein Y is a silicon or germanium atom.

12. (Original) The bridged metallocene compound of the formula [I] as claimed in claim 1, wherein  $R^1$  to  $R^4$  are all hydrogen.

13. (Original) An olefin polymerization catalyst comprising the bridged metallocene compound of claim 1.

14. (Currently Amended) An olefin polymerization catalyst comprising:

(A) the bridged metallocene compound of ~~any one of claims 1 to 12~~ claim 1 and

(B) at least one compound selected from:

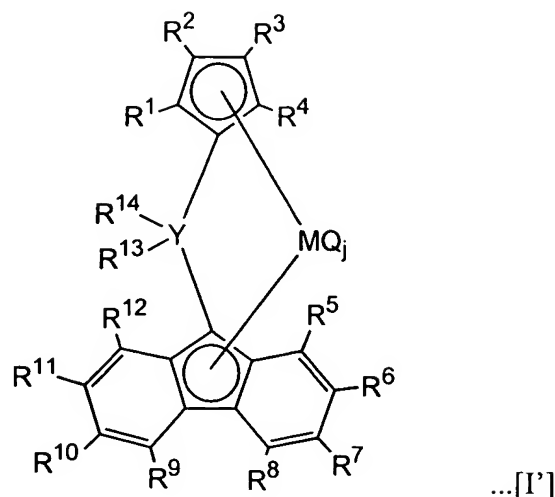
(B-1) an organometallic compound,

(B-2) an organoaluminum oxy-compound and

(B-3) a compound which reacts with the metallocene compound (A) to form an ion pair.

15. (Original) A method for olefin polymerization, in which one or more monomers, essentially ethylene, selected from ethylene and  $\alpha$ -olefins are polymerized in the presence of the olefin polymerization catalyst of claim 14 so that an ethylene based polymer with an ethylene content of more than 50 mol% is obtained.

16. (Original) A method for olefin polymerization, in which one or more monomers, essentially ethylene, selected from ethylene and  $\alpha$ -olefins are polymerized in the presence of an olefin polymerization catalyst which comprises a bridged metallocene compound of the formula [I'] so that an ethylene based polymer with an ethylene content of more than 50 mol% is obtained:



wherein Y is a carbon, silicon, germanium or tin atom; M is Ti, Zr or Hf;  $R^1$  to  $R^{12}$ , which may be the same or different, are each hydrogen, a hydrocarbon group or a silicon-containing group;  $R^5$  to  $R^{12}$  are not hydrogen at the same time; neighboring substituents of  $R^5$  to  $R^{12}$  may be linked with each other to form a ring;  $R^{13}$  and  $R^{14}$ , which may be the same or different, are each a hydrocarbon group or a silicon-containing group and may be linked with each other to form a ring; Q is a halogen, a hydrocarbon group, an anionic ligand or a neutral ligand capable of coordination by a lone pair of electrons, and may be the same or different when plural; and j is an integer from 1 to 4.

17. (Currently Amended) The method for olefin polymerization as claimed in claim 15 or 16, wherein the metallocene compound of the formula [I] or [I'] has been supported on a carrier.